**PATENT** 

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Kwang-hee Lee et al.

Serial No.: 10/801,208 Group Art Unit: 2811 Filed: March 16, 2004 Confirmation No.: 2034

For: METHODS OF MANUFACTURING SEMICONDUCTOR DEVICES HAVING A

RUTHENIUM LAYER USING VIA AUTOMATIC LAYER DEPOSITION AND

ASSOCIATED APPARATUS AND DEVICES

June 28, 2004

Office of Patent Legal Administration Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

#### PETITION TO ACCORD THE PROPER FILING DATE

Sir:

As set forth in 37 CFR § 1.10(c) and MPEP § 506.02, Applicant hereby petitions to grant the proper filing date of March 16, 2004 rather than March 17, 2004 for the above-identified patent application as this was the date the application was deposited as "Express Mail" in the U.S. Postal Service. The following is enclosed as evidence of March 16, 2004 being the correct filing date for the application, which was properly filed under 37 C.F.R. § 1.10:

- 1. A true and accurate copy of the Cover Sheet for the Application showing the Express Mail signature and date on Page 2;
- 2. A true and accurate copy of the Express Mail Receipt along with a copy of the USPS-Track & Confirm from the web page (<u>www.usps.com</u>), showing "acceptance" or deposit date with the USPS at <u>5:53</u> p.m. on March 16, 2004; and
- 3. A true and accurate copy of our return post card and of the official filing receipt for this application, sent by the United States Patent and Trademark Office, showing that Applicant was given the proper filing date of March 16, 2004 on the postcard.

This petition is being filed promptly after Applicant became aware of the improperly accorded filing date. Accordingly, Applicant respectfully requests the granting of March 16, 2004 as the filing date pursuant to 37 CFR § 1.10.

In re: Kwang-Hee Lee et al. Serial No.: 10/801,208

Filed: March 16, 2004

Page 2

On the basis that Applicant properly followed the requirements of 37 CFR § 1.10 and the USPTO failed to accord the proper filing date under MPEP § 505 and thus the need to file this petition is due to error on the part of the USPTO, it is applicant's belief that no fee is due with this petition. However, the Commissioner is authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-0220.

Respectfully submitted,

D. Randal Ayers

Attorney For Applicant Registration No. 40,493

**USPTO Customer No. 20792** 

Myers Bigel Sibley & Sajovec Post Office Box 37428 Raleigh, North Carolina 27627

Telephone: 919/854-1400 Facsimile: 919/854-1401

#### Certificate of Mailing under 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Office of Patent Legal Administration, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on June 28, 2004.

Michele P. McMahan

Date of Signature: June 28, 2004

EV 381444019 US

DRA/mpm

5649-1277 March 16, 2004

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450





Sir:

Kindly acknowledge receipt of the accompanying by placing your receiving date stamp hereon and mailing:

Application Transmittal (in duplicate); Checks-\$1,176.00 and \$40.00; Patent Application (14 pages, 33 claims; 4 drawing sheets); Preliminary Amendment; Declaration; Assignment Recordation Cover Sheet and Assignment; Submittal of Priority Document with Certified Copy of Korean App. No. 2003-19258; Information Disclosure Statement; PTO-1449 (copies cfl references) In re: Kwang-hee Lee et al.; For: METHODS OF MANUFACTURING SEMICONDUCTOR DEVICES HAVING A RUTHENIUM LAYER USING VIA AUTOMATIC LAYER DEPOSITION AND ASSOCIATED APPARATUS AND DEVICES

Respectfully submitted,
MYERS BIGEL SIBLEY & SAJOVEC

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.: 5649-1277 DATE: March 16, 2004

# UTILITY PATENT APPLICATION TRANSMITTAL LETTER AND FEE TRANSMITTAL FORM (37 CFR § 1.53(b))

Mail Stop PATENT APPLICATION Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Alexandria, VA 22313-1430							
Sir:							
Transmitted herewith for filing under 37 CFR § 1.53(b) is:							
Inventor(s) or Application Identifier:							
Kwang-hee Lee; Cha-young Yoo; Han-jin Lim; Jin-il Lee and Suk-jin Chung							
Entitled: METHODS OF MANUFACTURING SEMICONDUCTOR DEVICES HAVING A RUTHENIUM LAYER USING VIA ATOMIC LAYER DEPOSITION AND ASSOCIATED APPARATUS AND DEVICES							
Myers Bigel Sibley & Sajovec, P.A. P. O. Box 37428 Raleigh, North Carolina 27627 Telephone: (919) 854-1400 Facsimile: (919) 854-1401 Customer No. 20792							
Enclosed are:							
<ol> <li>Application Transmittal Letter and Fee Transmittal Form (A duplicate is enclosed for fee processing)</li> <li>14 pages of Specification (including 33 claims)</li> <li>4 sheet of Formal Drawings (35 USC 113)</li> <li>Oath or Declaration         <ul> <li>a.  newly executed (original or copy)</li> </ul> </li> </ol>							
b. copy from prior application (37 CFR 1.63(d) (for continuation/divisional) [Note Box 6 Below] c. DELETION OF INVENTOR(S) (Signed statement deleting inventor(s) named in the prior application) 5. Application Data Sheet. See 37 CFR 1.76							
6. Incorporation By Reference (useable if box 4b is checked)  The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.							

	Column 1	Column 2	Small Entity		Large Entity		
·	No. Filed	No. Extra	Rate	Fee	Rate	e Fee	
BASIC FEE	\$375.00		\$ 770.00				
TOTAL CLAIMS	<b>33-</b> 20 =	13	x 09 = \$ $x 18 = $234$		234.00		
INDEP CLAIMS	5 - 3 =	2	x 44 = \$		x 86 = \$172.00		
MULTIPLE Depe	+ 140 = \$		+ 280 = \$				
If the difference in Col. 1	Total \$		Total S	\$1,176.00			

A check in the amount of \$ to cover the filing fee is enclosed.

A check in the amount of 1,176.00 is enclosed to cover the filing fee and a check in the amount of \$40.00 to cover the Assignment Recordation fee is enclosed.

Please charge my Deposit Account No. 50-0220 in the amount of (filing fee plus \$40.00 to cover Assignment Recordation).

The Commissioner is hereby authorized to credit overpayments or charge the following fees associated with this communication to Deposit Account No. 50-0220:

a. Additional filing fees under 37 CFR 1.16 for presentation of extra claims.

b. Additional patent application processing fees under 37 CFR 1.17.

Respectfully submitted,

D. Randal Ayers Registration No. 40,493

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#### CERTIFICATE OF EXPRESS MAILING

Express Mail Label No. EV 381444019US

Date of Deposit: March 16, 2004

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Michele P. McMahan

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- ARRIVAL AT UNIT, March 17, 2004, 7:54 am, DULLES, VA 20102
- ENROUTE, March 16, 2004, 7:26 pm, RALEIGH, NC 27623
- ACCEPTANCE, March 16, 2004, 5:53 pm, RALEIGH, NC 27612

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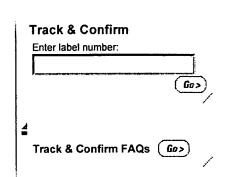
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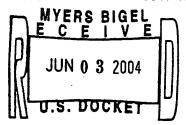
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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
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20792 MYERS BIGEL SIBLEY & SAJOVEC PO BOX 37428 RALEIGH, NC 27627



**CONFIRMATION NO. 2034** FILING RECEIPT \*OC000000012831661

Date Mailed: 06/01/2004

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

#### Applicant(s)

Kwang-hee Lee, Seoul, KOREA, REPUBLIC OF: Cha-young Yoo, Gyeonggi-do, KOREA, REPUBLIC OF: Han-jin Lim, Seoul, KOREA, REPUBLIC OF; Jin-il Lee, Gyeonggi-do, KOREA, REPUBLIC OF; Suk-jin Chung, Gyeonggi-do, KOREA, REPUBLIC OF:

Domestic Priority data as claimed by applicant

Foreign Applications

REPUBLIC OF KOREA 10-2003-19258 03/27/2003

If Required, Foreign Filing License Granted: 05/31/2004

Projected Publication Date: 09/30/2004

Non-Publication Request: No

Early Publication Request: No

06-03-04 A09:24 IN

Title

deposition and associated apparatus and devices

**Preliminary Class** 

257

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